

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number  
**WO 2005/090933 A1**

(51) International Patent Classification<sup>7</sup>: **G01F 23/38**

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(21) International Application Number:  
PCT/GB2005/001036

(22) International Filing Date: 18 March 2005 (18.03.2005)

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(25) Filing Language: English

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:  
0406278.2 19 March 2004 (19.03.2004) GB

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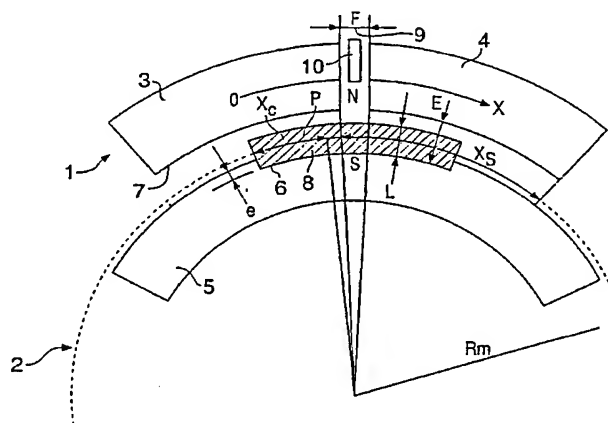
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

(72) Inventors; and

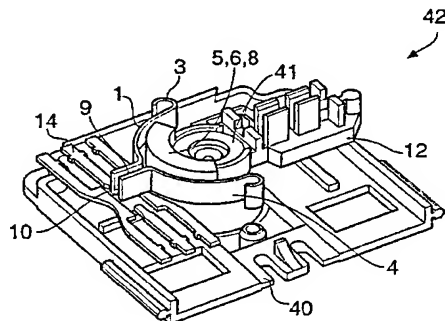
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[Continued on next page]

(54) Title: **FUEL LEVEL SENSOR USING ROTATING ANGLE SENSOR ATTACHED TO FLOAT ON TOTATING ARM**



(57) Abstract: A fuel level sensor having a magnetic position sensor connected to an arm for attachment to a float, wherein the magnetic position sensor comprises a stator and a movable part, the stator having two soft magnetic pieces defining an air gap, which contains a magnetoresistive probe for measuring the variation in induction in the gap, the moveable part comprising a yoke of soft magnetic material displaceable parallel to the magnetic pieces of the stator, and a magnet partly embedded in a cavity in the yoke facing the stator, the poles of the magnet being polarized perpendicularly to direction of movement of the moveable part relative to the stator.



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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

— before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*